



Junior Research Fellowships in GW-Astro Group at IUCAA, Pune

Prof. Shasvath J. Kapadia has one JRF position open in his group, which he is looking to fill in the next few months. The selected candidate will work closely with Prof. Shasvath's GW-Astro group at IUCAA, on a project pertaining to gravitational-wave (GW) astronomy. In particular, the project aims to search for line-of-sight acceleration in detected compact binary coalescence (CBC) events, estimate the rate of mergers of such accelerated CBCs, and investigate the information they can provide about the environment in which they formed, evolved, and merged. The position is expected to last for one year, with a possible extension of up to one year, contingent on the applicant's performance and availability of funds. Only candidates who have either completed an M.Sc. degree in Physics/Astrophysics or a related field or are expected to finish before the Summer of 2024 are eligible. The candidate is expected to have no other academic commitments over the duration of the project and start the project in person at IUCAA, preferably before June 1st, 2024. Experience with Linux and Python is a must. Experience in GW astronomy (theory or data analysis) is preferred, though not mandatory.

Interested candidates are requested to write directly to Prof. Shasvath Kapadia at shasvath.kapadia@iucaa.in, with a CV and a Research Statement. The Research Statement should not exceed two pages. It should contain a short description of past project(s) that the candidate has worked on, and cogent arguments for why the candidate thinks they are suited for the position.

Two letters of recommendation are requested to be sent directly from the referees to Shasvath at his IUCAA email address with the following subject line: "**Letter of recommendation for <candidate name> (ref. JRF at IUCAA)**".

Please address questions, if any, to Prof. Shasvath Kapadia at his IUCAA email address mentioned above.

Application Deadline: March 12, 2024, 9:00 PM IST, including letters of recommendation. Shortlisted candidates will be informed via email after this deadline to appear for an online interview. The candidate selected for the position will be informed after the interview.

Tentative Start Date of the Project: June 1, 2024 or earlier

Remuneration: The selected candidate will be paid as per government norms for JRFs (INR 37,000/- per month), including an HRA if they stay outside of the IUCAA campus.